



Transition from Release A to Release B

Rick Kochhar
rkochhar@eos.hitc.com

2 November 1995

Agenda



Transition objectives

Transition timeline and schedule constraints

Transition plan components

Sample transition questions

IDR to CDR transition planning activities

“A to B transition plan” white paper

DCE cell/version transition approach

Potential transition mechanisms

Organizations involved in transition planning



Transition Objectives

Deploy Release B into full production

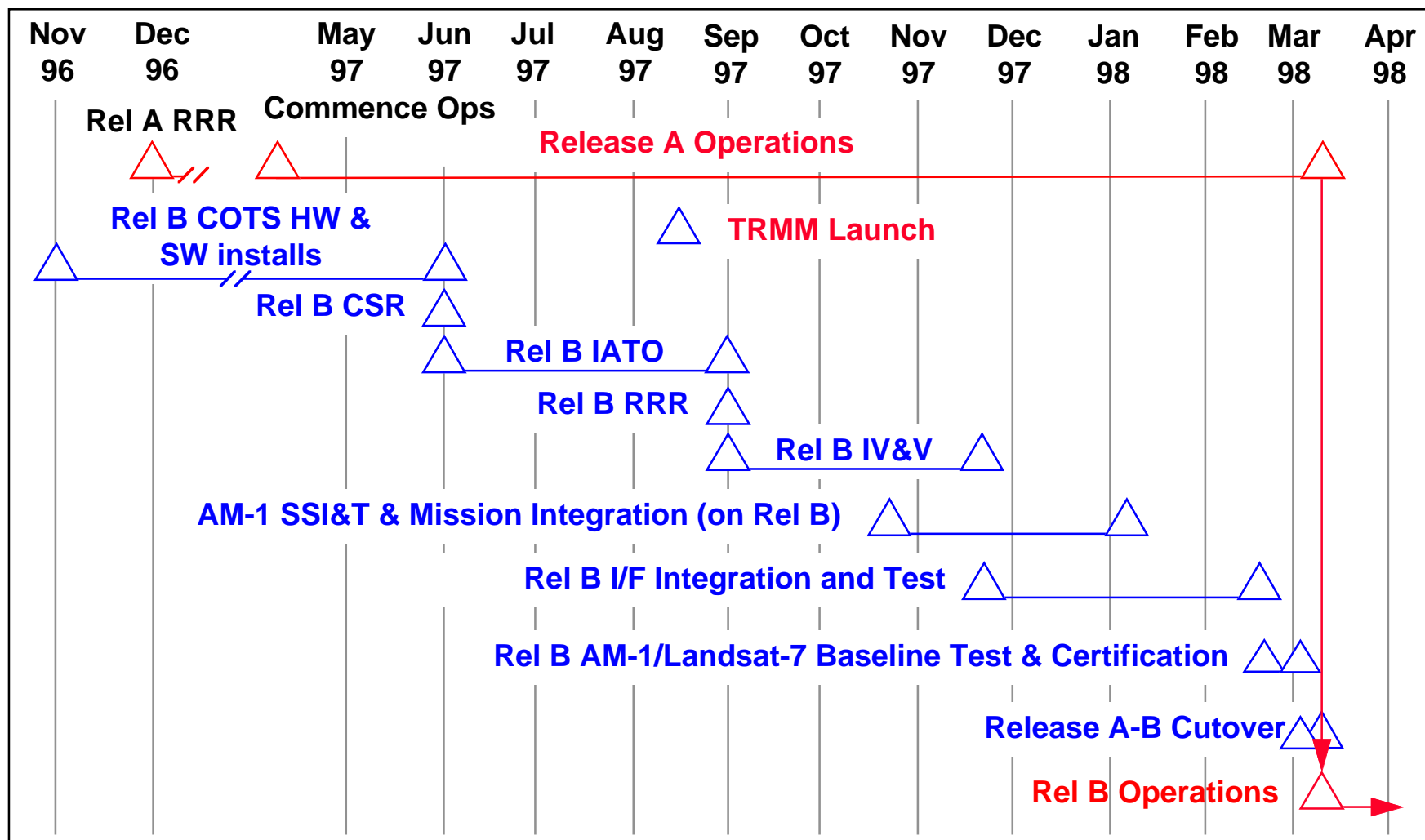
Enable smooth transition between releases

Minimize Release A operations impact

Maintain continuity for users

Involve interested parties in planning the A to B transition

Release A to Release B Transition Timeline and Schedule Constraints





Transition Plan Components

Minimize test impact on Release A sites by maximizing early testing at new Release B sites

- addresses testing of many inter-DAAC dependencies

DCE 1.0.3 --> 1.1 migration strategy

Metadata Transition of Sybase to Illustra

- Coexistence of Release A and Release B data server

Preserve DAAC-specific data configuration/customization

Subsystem and component level interoperability (A/B) allows phased migration

Site-level interoperability (A/B) allows phased migration

Continued support of Release A clients



Sample Transition Questions

- What are the domains of applicability of the transition strategies?
- What is the hardware deployment (reuse, rotation...) strategy?
- How are impacts absorbed without creating a production backlog?
- What use of off hours resources will be required?
- What new staff resources will be required?
- What new training will be required?
- Based on interoperability between A and B locations and mission support requirements, how phased should the cutover be?

Sample Transition Questions (cont.)



- **How do COTS selections impact detailed mode management design?**
- **How are COTS software and operating systems upgrades implemented?**
- **What is impact on data and metadata already in Release A or going in during transition?**

What can be done to minimize short term impacts from transition to data and services availability to users?

IDR to CDR Transition Planning Activities



Today - A --> B transition plan presentation

December, 1995 - Ops telecon to finalize transition scenario list

January, 1996 - Transition scenarios at Ops workshop -

DCE 1.0.3 --> 1.1 interoperability prototype early results

February, 1996 - “A to B transition plan” white paper - Version 1

March, 1996 - Telecon on “A to B transition plan” white paper

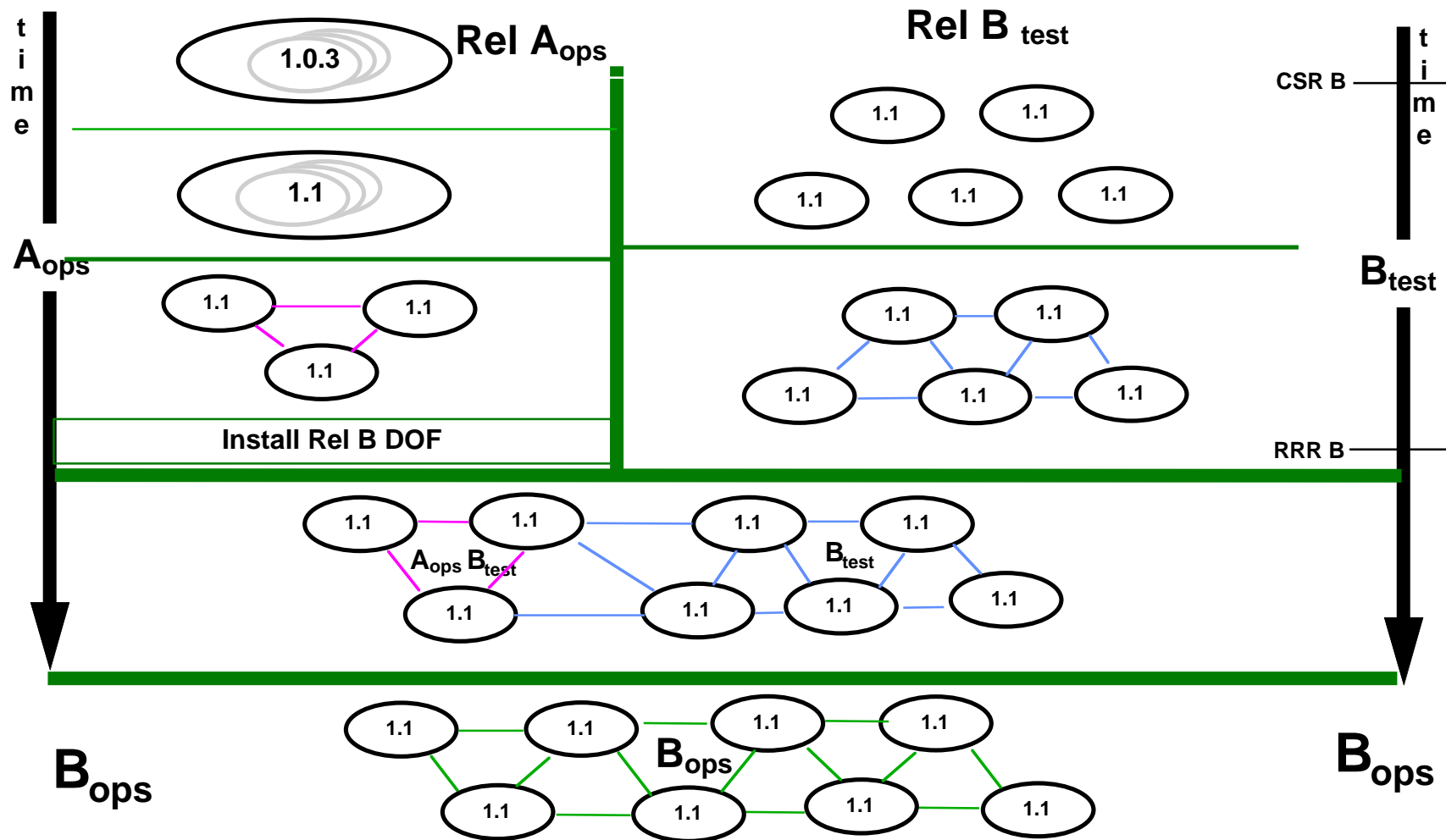
April, 1996 - “A to B transition plan” white paper - Final

“A to B Transition Plan” White Paper



- **White paper to address**
 - Transition schedule
 - Transition mechanisms
 - Subsystem to subsystem and component to component level interoperability
 - Site by site level of interoperability
 - Hardware deployment/reuse
 - DCE cell/version transition approach
 - Site by site strategy and phasing

DCE Cell/Version Transition Approach



Release B interoperability testing independent and parallel to Release A

Release A inter-cell testing independent of Release B



Potential Transition Mechanisms

Interoperability

- Release B retains inherited Release A “methods”
- Obsolete class deletion - will review impact before deleting any class

Mode management

Installation of key enabling Release B technology/software into Release A by sustaining engineering

Accelerated hardware acquisition

Phased transition

Maximize use of new Release B sites for testing

Organizations Involved in Transition Planning



ECS

- Release B
- Release A
- Development Engineering
- Multi Release Support
(Hardware/Network/Data Engineering)
- M&O/Operations
- M&O/Logistics
- Independent Acceptance Test
Organization/Configuration Management
- Science Office
- Flight Operations Segment

Partners

- Instrument Teams
- DAACs
- ESDIS
- Other Data Providers



Summary/Next Steps

Maintaining sensitivity to transition objectives

- DAAC operations
- Development
- Testing

Coordinating with DAACs' and other cognizant personnel to work issues

Continue transition related prototypes

Refining and analyzing proposed solutions and recommendations -- to be addressed in "A to B transition plan" white paper